

Lewis' Educational and Research Collaborative Internship Program (L.E.R.C.I.P.)

2003 SUMMER INTERNSHIP FOR NASA Scholars

"To inspire the next generation of explorers . . . as only NASA can"

Program Description

This is an educational program that provides internships for students of science and engineering. A NASA scholar is an individual who currently receives financial support through their university from a NASA field installation or NASA Headquarters in pursuit of their educational goals through scholarships or fellowships. Internships of a 10-week duration are available during the summer months at the NASA John H. Glenn Research Center. The internships are offered under the auspices of Lewis' Educational and Research Collaborative Internship Program (L.E.R.C.I.P.), a collaborative undertaking of the Glenn Office of Educational Programs (http://www.grc.nasa.gov/WWW/OEP) and OAI (http://www.oai.org). The L.E.R.C.I.P. college component offers opportunities for graduating 2003 high school seniors through Ph.D. students.

Program Goal

Internships will provide students with introductory professional experiences to complement their academic programs and research interests. In order to accomplish this, students are given the opportunity to develop their skills in one of the following areas: assignments in research and development and technical projects under the guidance of a NASA staff member. The mentor in identifying student assignments will consider the student's academic level and field of interest, when possible. The program is designed to provide experiences in a research and development environment in order to expand the student's understanding of possible career choices that are available at NASA. Program activities include oral presentations, and a variety of scheduled enrichment activities. Because of the program's short duration and intensive requirements, no vacation time or summer classes can be taken during the internship. If selected, the student must be present for the entire 5-day, 40-hours per week, Monday through Friday.

Glenn Research Center (http://www.grc.nasa.gov)

The NASA Glenn Research Center defines and develops advanced technology for high-priority national needs. The work of the Center is directed toward new propulsion, power, and communications technologies for application to aeronautics and space. Glenn has been designated as the NASA Lead Center for Aeropropulsion. The Center's aeropropulsion program plays a significant role in the Agency's goals to promote economic growth and national security through safe, superior, and environmentally compatible U.S. civil and military aircraft propulsion systems.

Glenn is also NASA's Center of Excellence in Turbomachinery. The Center is committed to developing new and innovative technology and leveraging its computational, analytical, and experimental expertise in turbomachinery to future aerospace programs. Glenn leads NASA's research in the microgravity science disciplines. The Center also designs power and propulsion systems for space flight systems in support of NASA programs.

NASA Glenn at Lewis Field is located in the Great Lakes region of Ohio and occupies a 350-acre site, adjacent to Cleveland Hopkins International Airport. The Center comprises over 150 buildings, which contain a unique collection of world-class facilities. Over 3600 people staff Glenn, including civil service employees and support service contractors.

You are encouraged to review the NASA home page to learn more about Glenn's research activities and programs.

College Eligibility

Applicants must be **U.S. CITIZENS** who are full-time students pursuing a baccalaureate or higher degree in a field of science, engineering, math, and technology. Students must have a cumulative GPA of 3.0 on a 4.0 scale.

Interested secondary school teachers and high school students can obtain application information about the other L.E.R.C.I.P. programs by accessing the Office of Educational Programs web site (http://www.grc.nasa.gov/WWW/OEP).

Application Information:

Students seeking internships must submit an application. You will be sent a post card or e-mail acknowledging receipt of your application. All students are required to complete the entire 10-week tenure. The program does not provide for vacation time and such time should be scheduled outside the tenure period. Students are expected to adhere to the tenure period and dates specified on their application. Additional information may be obtained by contacting:

NASA GRC Office of Educational Programs ATTN: L.E.R.C.I.P. Scholars 21000 Brookpark Road, MS 7–4 Cleveland, OH 44135 Telephone: 216–433–6656

E-mail: intern@grc.nasa.gov

Applications must be received <u>no later than January 15, 2003</u>, to assure consideration. Application materials received after the deadline will not be considered or processed.

A complete application package must include

- 1. An original completed, signed application plus three copies
- 2. Transcript(s)
- 3. Teacher endorsement
- 4. Student Application Information

College Selection Criteria

Selection in this program is very competitive and is based on the following:

- Glenn organizational/programmatic and budgetary commitments
- Academic level/relative coursework
- Performance background/research interests
- Students availability

SELECTED students will be notified by April 15, 2003.

Salaries

Interns receive a biweekly salary for their appointments. The amount of the salary depends on the academic standing achieved by the student at the time tenure begins and supported by student's transcripts. If selected, salary details and program information will be provided in the offer letter.

Academic standing: Freshmen/Sophomore \$800 Junior/Senior \$1000 Master/Doctoral Student \$1200

The normal statutory withholdings will be withheld. The tax portion withheld will depend on the tax status submitted by each individual.

Travel Allowances

One round-trip travel reimbursement is provided to students whose city of permanent residence is more than 50 miles from Cleveland and who relocate for the program. Reimbursement is based on shortest-route mileage at 36.5 cents per mile and is paid after tenure begins. This amount must not exceed \$500.00. Travel allowances are disbursed to eligible students 1 week after tenure begins.

Available Internship Tenure Dates for 2003:

Start dates May 19, 2003 June 3, 2003 June 16, 2003

Housing Accommodations

Students are responsible for making their own housing and travel arrangements. This program does not provide living expenses. If a list of short-term housing is desired, check the appropriate box on the application and one will be provided to you. Please understand that the housing list has been assembled by OAI for your convenience. Accommodations on the list have not been checked and OAI does not advocate them over other accommodations you may find on your own. If selected for the program, you are encouraged to start your search for housing as soon as possible.

NASA SCHOLAR STUDENT APPLICATION FORM Please type or print in black ink only.

| Leg | al name: | Social security number: | |
|-------------------------------|--|--|----------------------|
| Male | | U.S. citizen ☐ Yes ☐ No Place of birth: City, State, Country | |
| Natu Pleas | S. citizen but born outside the U.S. or Puerto Rico you must provious ralization or passport number: Date se check box below of where correspondence should be ser chool address: [college applicants only] | de the information requested below: sissued: Date expired: | |
| City Tele | State Zip Code ephone:() | City State Zip Code Telephone:() Alternate telephone:() | _ |
| Fall (Mini Cred Tota | nulative GPAou 2003: mum eligibility: 3.0 GPA) dit hours earned as of May/June 2003: all credit hours required for graduation: aned graduation date: | Academic level as of HS Freshman HS Sophomore (10) College Sophomore Sophomore HS Junior HS Senior HS Senior College Freshman HS Teacher Academic level as of College Sophomore College Sophomore College Freshman HS Teacher Academic level as of College Sophomore College Freshman College Freshman HS Teacher Academic level as of College Sophomore College Freshman College Freshm | 5) 6) 7) 8) |
| | e you previously participated in a NASA or Fede | ral program? Yes No or (A) or participated in (P) previously, and indicate the year: | |
| | (P) (Year) □ SHARP □ Glenn NASA PLUS □ Glenn Engineering Technology □ Glenn Explorers □ Glenn Shadowing Program □ Glenn Aerospace Education □ Camp (at Oberlin College) | (A) (P) (Year) NASA Student Involvement Program NASA Project SEMAA FIRST Glenn TSU College Bound Other | |
| How | v did you learn about the program? ☐ Inquiry to NASA about summ ☐ Group visit to the Center ☐ Faculty member or school of ☐ Relative who works for NASA | icial | 2 |
| | □ NASA website□ Office of Educational Progra | , | |
| | Received: | USE ONLY PR Requirement: \$ 4 15 16 17 18 19 | |
| Initia | | | |

PLACEMENT INFORMATION

| indicate order of pref | erence by numbering 1 throu | igh 3 with 1 being your fire | vailable. If choosing more that st choice. Final student place OGY, MEDICINE, or VETER | ment is determined |
|---|--------------------------------|------------------------------|---|--------------------|
| Aero/Astro Biomedica Ceramics Chemical e Chemistry Computer Electrical e Environme Materials e Math | engineering | · | Physics Polymers Structural engineering Systems engineering Accounting Business administration Education Graphics Personnel Procurement | n |
| Academic Informa | ation | | | |
| Current college/unive | ersity: | | | _ |
| City: | State: | Zip code: | Telephone number: (|) |
| Degree currently pur | suing: 🖬 B.A. 🔲 B.S. | ☐ M.S. ☐ Joint B.S | 3./M.S. □ Ph.D. | |
| Academic major: | | Academic minor: | | |
| Will you be attending | a different college/university | v in fall 2003? ☐ Yes | ☐ No | |
| | : ☐ Transfer student ☐ G | | First year graduate student | □ Ph.D. student |
| - | ge/university? | _ | | |
| | · · | | | _ |
| City: | State: | Zip code: | Telephone Number: (| <u> </u> |
| | ates (must check one): | 3 courses: | | |
| 2003 Internship D | Start date | End da | 240 | |
| | May 19, 2003 | Ena da July 25, 2 | | |
| | June 3, 2003 | August 8, | 2003 | |
| | June 16, 2003 | August 22 | 2, 2003 | |
| | rovided a short-term housing | | | |
| Do we have permissi housing? Yes | | l email address in a listing | to be sent to students intere | sted in shared |

Student's Narrative Statement

In the space below, tell us what you would like to achieve during your internship at Glenn. Be sure to address your academic field of interests and <u>potential placement areas</u>. Please type and be sure to address the following:

- Reason(s) for wanting to participate in L.E.R.C.I.P.
- Career goals/aspirations; and the educational plan you intend to use to reach your goals
- How both you and NASA will benefit if you are selected to participate

BACKGROUND INFORMATION

| Academic honors/awards: | |
|---|---|
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| Computer experience (be specific): | |
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| Work experience (be sure to include length/year(s) of e | employment) : |
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| | |
| List special training or skills that may relate to your | internship placement choice(s): |
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| | |
| REFERENCES You must provide two references other than the ins | structor providing written endorsement. |
| Name, Title | Telephone |
| Name, Title | Telephone |
| CERTIFICATION | |
| contained in this application is correct. I further un information on this completed application will be of in the L.E.R.C.I.P. program and other NASA prog | n of the United States of America and that all information inderstand and agree that any misrepresentation or inaccurate cause for disqualification for consideration and from participation grams. I also understand that if selected to participate, I must d failure to do so will result in the immediate termination of my |
| Signature: | Date: |

L.E.R.C.I.P.

Scholar Placement Form

| Na | me of scholar: | Date: |
|----|--|---|
| Sc | hool: | Academic level: |
| Ac | ademic major(s): | Graduation date: |
| 1. | Name of NASA Scholar Scholarship Program you a | re participating in: |
| 2. | Number of years you have been in the program: | |
| 3. | School/program point of contact: | Telephone: |
| 4. | Are you a past L.E.R.C.I.P. Scholar Participant? | □ Yes □ No |
| 5. | If past scholar participant, where did you intern at: | Center and/or Place Year |
| 6. | If past participant at Glenn Research Center, do you | u want to return to the same organization? □ Yes □ No |
| | If yes, you are encouraged to contact your mentor to disc | cuss the availability of summer positions. |
| | I have contacted my mentor from last year and he/she | e is interested in hosting me again |
| | I have not contacted my mentor from last year | |
| | If no, you must list possible placement areas you are into (Review the NASA home page http://www/grc.nasa.gov to | |
| | 1 st Placement area: Resea | rch interests: |
| | 2 nd Placement area: Resea | rch interests: |
| | 3 rd Placement area: Resea | rch interests: |
| 7. | Is your summer internship stipend paid to you throu | gh your scholarship? □ Yes □ No |
| | If yes, does it also provide for travel reimbursement | ? □ Yes □ No |
| | | |

Student Application Information

| Name: | | | | ☐ Male | e 🖵 Female |
|--------|------|-----------------------------|--|--------|------------|
| Progra | am y | ou are applying for: | L.E.R.C.I.P. Scholar Intern | nship | |
| annou | ncen | | o which members of each e at the student check the ap | | |
| 1. | Ra | cial background | | | |
| | a. | ☐ African American/B | lack | | |
| | b. | ☐ Asian American* | | | |
| | C. | □ Caucasian/White | | | |
| | d. | ☐ Hispanic/Latino | | | |
| | e. | Native American or | Alaskan Native | | |
| | f. | Pacific Islander/Nat | tive Hawaiian** | | |
| | g. | ☐ Other, please speci | ify: | | |
| 2. | Inc | lividual with disabilities* | ** | | |
| | | YesNo | | | |
| | b. | If yes, please specify: | | | |
| | C. | Please list any special | accommodations required: | | |
| | | | | | |
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The information solicited on this form will not be available to those responsible for reviewing applications but will be used by NASA primarily to determine the extent to which various populations are represented in the applicant pool.

^{*}This includes, for example, China, India, Japan, and Korea.

^{**}This area includes any of the original peoples of Hawaii; the U.S. Pacific Territories of Guam, American Samoa, and the Northern Marianas; the U.S. Trust Territory of Palau; the Islands of Micronesia and Melanesia; and the Philippines.

^{***} A person having a physical or mental impairment that substantially limits one or more major life activities, has a record of such impairment, or is regarded as having such impairment.

Applicant, fill in your name on the endorsement form, separate it from the application form, and give it along with the enclosed envelope (or a plain white envelope) to the faculty member who you are asking to provide a recommendation based on your academic ability and interpersonal skills. Because the endorsement letter is a requirement of the application package, you are encouraged to set a predetermined date with the faculty member of when you can pick up the endorsement.

Student name:

L.E.R.C.I.P. TEACHER/FACULTY ENDORSEMENT

| The above-named student is applying for will provide an opportunity for the student of the student's participation is requeste experience. You are encouraged to list stattach a separate letter. The student's efor the student to be eligible for the progendorsement must be sent separately it Attention: L.E.R.C.I.P. NASA Scholar | nt to work with professionard in consideration of his of specific reasons for your endorsement with his/her a gram. The student should reshould be sent to the follogian. | Il staff in a professional en r her potential to both cont ndorsement. You may use pplication must be receive eturn this form in a sealed wing address: NASA GRO | vironment. Your endorse ribute to and benefit from the space provided below the later than JANUAR envelope with the applic Office of Educational | ment the ow or Y 15, 2003, ation. If the |
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| Ido recommend | do not recommend | I, the above student for the | e internship | |
| Printed name: | | | Date: | |
| SCHOOL TITLE: | | | | |
| Department: | | | Telephone: | |
| Address: | | ity | State | Zip code |

APPLICATION PACKAGE CHECKLIST

Before completing this application and submission, you should read it thoroughly. Special attention should be given to eligibility requirements, dates, and deadlines. Be sure to complete all blocks with information that is requested. You are encouraged to make a copy of your completed application package, as we are unable to return application material submitted for the program.

Required information: (check when completed)

- Completed and signed application plus three complete copies
- □ **Teacher/Faculty Recommendation Form** (Return in sealed white envelope. Be sure to write the student's name across the front of the envelope as well as yours. Must be received by January 15, 2003, for student to be eligible.)
- □ **School transcripts** (Attach your current transcript of courses completed. Transcript should include final grades for courses through 2002 fall academic semester. Unofficial photocopies are acceptable)
- Student Application Information

The application will not be considered eligible unless all information requested on the application is provided and an original plus three (3) copies (except faculty endorsement) are received be <u>January 15, 2003</u>.

Faxed copies are unacceptable!

Mail completed application package to

NASA GRC Office of Educational Programs Attn: L.E.R.C.I.P. NASA Scholars 21000 Brookpark Road, MS 7–4 Cleveland, OH 44135

Should you have any questions, please call

GRC Office of Educational Programs

Telephone: 216-433-6656

Email: intern@grc.nasa.gov

Please be advised that any applications or application materials received after January 15, 2003, will not be considered or processed.